

## Critical Thinking



## Bacteria

## Background

## Bacteria

- are simple cells without mitochondria, endoplasmic reticulum, or a nucleus
- are protected by a capsule on the outside of the cell

## Some bacteria

- are decomposers
- are pathogens
  - strep throat
  - pneumonia
  - tuberculosis
- are aerobic
- are anaerobic

## Vocabulary

- ☐ **aerobic**—Requires oxygen to live.
- ☐ **anaerobic**—Lives in the absence of oxygen.
- ☐ **bacillus** (plural bacilli)—A rod-shaped bacterium.
- ☐ **coccus** (plural cocci)—A round-shaped bacterium.
- ☐ **decomposer**—Feeds on dead material.
- ☐ **endoplasmic reticulum**—A connecting network in some cells.
- ☐ **flagellum** (plural flagella)—A whiplike structure used during movement and made of fibers of protein.
- ☐ **mitochondria**—Centers of energy release in some cells.
- ☐ **nucleus**—The control center of some cells.
- ☐ **pathogens**—Cause diseases.
- ☐ **spirillum** (plural spirilla)—A spiral-shaped bacterium.

## Methods of Movement

## Bacteria move in three ways:

- by crawling
- by gliding
- by using flagella

## Types of Bacteria

## Bacteria are classified by their shapes:

- round—called cocci
- spiral—called spirilla
- rods—called bacilli



# Concept Map: Bacteria

Name \_\_\_\_\_

Date \_\_\_\_\_ Period \_\_\_\_\_

**Directions:** Select words from the word list to fill in the blank map items. Use each word only once, and use all the words on the list. The word list box also contains two diagrams for you to copy into the correct boxes on the map.

